

(19) World Intellectual Property
Organization
International Bureau



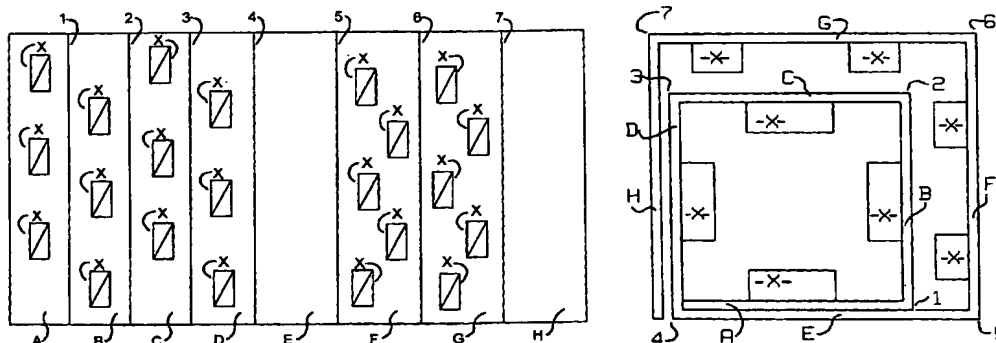
(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/033297 A3

- (51) International Patent Classification⁷: **B65D 75/30**, C11D 17/04, 17/00
- (21) International Application Number: PCT/GB2003/004432
- (22) International Filing Date: 13 October 2003 (13.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0223638.8 11 October 2002 (11.10.2002) GB
- (71) Applicant (for all designated States except US): **AQUA-SOL LIMITED** [GB/GB]; Writtle College Campus, Chelmsford, Essex CM1 3WN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EDWARDS, David, Brian** [GB/GB]; 88 Hayfield, Chells Manor, Stevenage, Hertfordshire SG2 7JR (GB). **DREW, Bruce, Michael** [GB/GB]; The Bowling Green, 8 The Downs, Great Dunmow, Essex CM16 1DT (GB). **PARKES, Michael, Edward** [GB/GB]; The Solutions Network, 88 Exning Road, Newmarket, Suffolk CB8 0AB (GB). **MCCARTHY, William, John** [GB/GB]; 17 Charlton, Donhead St Mary, Shaftsbury, Dorset SP7 0EN (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
5 August 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRODUCT CONTAINERISATION SYSTEM



(57) Abstract: A product containerisation system created by attaching at least one product (X) to one side of a planar sheet (103) by overlaying a polymeric film (101) over the product and one side of the planar sheet by a skin packing process, and there folding the planar sheet into an erected container or package, in which the polymeric film is selected and arranged such that twisting the product (X) and overlying film about an axis (105) transverse to the planar sheet shears the polymeric film generally around the perimeter (107) of the product adjacent the planar sheet.

PCT/GB 03/04432

IPC 7 B65D75/30 C11D17/04 C11D17/00

B. FIELDS SEARCHED

IPC 7 B65D C11D

EPO-Internal

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 411 364 A (FRIEDMAN DAVIDE R) 25 October 1983 (1983-10-25)	1
Y	figures 8,9	8
X	US 26 494 A (CARL B. STOKER, JR.) figures 3,6-8	1
Y	DE 72 13 351 U (ALKOR OERLIKON PLASTIC GMBH) 19 February 1976 (1976-02-19) figures 4-6	1
Y	FR 2 628 705 A (EPICUREO GIULIO ;GUIGUI DAVID (FR); STREBELLE PHILIPPE (FR); POURB) 22 September 1989 (1989-09-22) figure 3	1
	-/--	

☒ Patent family members are listed in annex.

*& document member of the same patent family

02.06.2004

Ungureanu, M

INTERNATIONAL SEARCH REPORT

In: national Application No
PCT/GB 03/04432

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 131 725 A (MECCANO LTD) 10 November 1972 (1972-11-10) figures 1,2 ---	1
7	GB 2 370 552 A (AQUASOL LTD) 3 July 2002 (2002-07-03) figure 3 ---	8
Y	GB 2 361 010 A (RECKITT BENCKISER ; RECKITT & COLMANN PROD LTD (GB)) 10 October 2001 (2001-10-10) figure 3 -----	8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/04432

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4411364	A	25-10-1983	AU 1061083 A 28-07-1983
		CA 1182078 A1 05-02-1985	
		GB 2115379 A 07-09-1983	
		JP 58134872 A 11-08-1983	
US 26494	A	NONE	
DE 7213351	U	19-02-1976	NONE
FR 2628705	A	22-09-1989	FR 2628705 A1 22-09-1989
FR 2131725	A	10-11-1972	DE 2206072 A1 05-10-1972
		FR 2131725 A5 10-11-1972	
		IT 952442 B 20-07-1973	
GB 2370552	A	03-07-2002	GB 2357488 A 27-06-2001
		GB 2361010 A 10-10-2001	
		GB 2370553 A 03-07-2002	
		GB 2370554 A ,B 03-07-2002	
		AU 1647001 A 30-05-2001	
		BR 0015617 A 10-09-2002	
		CA 2391613 A1 25-05-2001	
		CA 2414395 A1 25-05-2001	
		CN 1409682 T 09-04-2003	
		CN 1473742 A 11-02-2004	
		DE 20022487 U1 13-12-2001	
		EP 1232100 A1 21-08-2002	
		GB 2356842 A 06-06-2001	
		WO 0136290 A1 25-05-2001	
		GB 2358382 A ,B 25-07-2001	
		GB 2376676 A ,B 24-12-2002	
		JP 2004500285 T 08-01-2004	
		JP 2003327270 A 19-11-2003	
		US 2003108705 A1 12-06-2003	
GB 2361010	A	10-10-2001	AU 1647001 A 30-05-2001
		BR 0015617 A 10-09-2002	
		CA 2391613 A1 25-05-2001	
		CA 2414395 A1 25-05-2001	
		CN 1409682 T 09-04-2003	
		CN 1473742 A 11-02-2004	
		DE 20022487 U1 13-12-2001	
		EP 1232100 A1 21-08-2002	
		WO 0136290 A1 25-05-2001	
		GB 2358382 A ,B 25-07-2001	
		GB 2370552 A ,B 03-07-2002	
		GB 2370553 A 03-07-2002	
		GB 2370554 A ,B 03-07-2002	
		GB 2376676 A ,B 24-12-2002	
		JP 2004500285 T 08-01-2004	
		JP 2003327270 A 19-11-2003	
		US 2003108705 A1 12-06-2003	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/04432

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7,9-12

A containerisation system referring to a skin packing process of a product on a planar sheet and then folding the sheet into an erected container

2. Claim : 8

The form and construction of the product to be packed